

JUL 30 2007

PATENT  
Docket No. 290.0004 0130

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): GUO et al. ) Group Art Unit: 1635  
 )  
 )  
 Serial No.: 10/539,241 ) Examiner: Unassigned  
 )  
 )  
 Filed: 16 June 2005 ) Confirmation No.: 2305  
 (International Filing Date: 16 December 2003 )  
 For: pRNA CHIMERA

FACSIMILE TRANSMISSION TO THE PTO

Commissioner for Patents  
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July 30, 2007  
 Date

Mucting, Raasch & Gebhardt, P.A.  
 Customer Number: 26813  
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 Victoria A. Sandberg  
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**CERTIFICATE UNDER 37 C.F.R. §1.8:** The undersigned hereby certifies that this Facsimile Cover Sheet and the  
 paper(s), as described hereinabove, are being transmitted by facsimile in accordance with 37 CFR §1.6(d) to the  
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July 30, 2007  
 Date

Signature: Rachel Langford  
 Name: Rachel Langford

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PATENT  
Docket No. 290.0004 0130

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): GUO et al.	)	Group Art Unit:	1635	
	)			
Serial No.:	10/539,241	)	Examiner:	Unassigned
	)			
Filed:	16 June 2005	)	Confirmation No.:	2305
	(International Filing Date: 16 December 2003)	)		
For:	<u>pRNA CHIMERA</u>			

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Pursuant to MPEP § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 form, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to any pending U.S. Application cited in the 1449 form submitted herewith, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced in the pending U.S. applications or in their file wrappers.

This application is a U.S. national stage of PCT/US2003/039950, which is a continuation of U.S. Patent Application Serial No. 10/373,612, filed 24 February 2003. In accordance with 37 C.F.R. §1.98(d), copies of documents previously cited by or submitted to the

**Information Disclosure Statement**

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Applicant(s): GUO et al.

Serial No.: 10/539,241

Confirmation No.: 2305

Filed: 16 June 2005

For: pRNA CHIMERA

U.S. Patent and Trademark Office in connection with Applicants' prior application listed above, are not included herewith.

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being transmitted by facsimile in accordance with 37 CFR §1.6(d) to the Patent and Trademark Office, addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 30 day of July, 2007, at 2:05P.M. (Central Time).

By: R.G.C.  
Name: Rachel Ciglerand

30 July 2007  
Date

Respectfully submitted  
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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 290.00040136	<b>JUL 30 2007</b>	Serial No.: 10/539,241
	Applicant(s): Guo et al.	Confirmation No.: 2305	
	Application Filing Date: 16 June 2005	Group: 1635	
	Information Disclosure Statement mailed: <i>JUL 30</i> , 2007		

**U.S. PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		2004/0126771 A1	02/24/2004	Guo			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
		WO 2005/035760 A3	04/21/2005	PCT				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
		Abrahams et al., "Structure at 2.8 Å resolution of F1-ATPase from bovine heart mitochondria," <i>Nature</i> , 1994; 370:621-628.
		Anderson and Grimes, "Chapter 7: The phi29 DNA Packaging Motor: Seeking the Mechanism," in Catalano (Ed.) <i>Viral Genome Packaging Machines: Genetics, Structure, and Mechanism</i> Kluwer Academic/Plenum Publishers: New York, NY; 2005. pp. 1-15.
		Chen, C., et al., "New approaches to stoichiometry determination and mechanism investigation on RNA involved in intermediate reactions," 1997 <i>Nucleic Acid Symp Series</i> . 36:190-193.
		Cotten et al., "Receptor mediated transport of DNA into eukaryotic cells," in Wu (Ed.) <i>Methods in Enzymology: Recombinant DNA</i> , Volume 217. Academic Press: San Diego, CA; 1993. Title page, publisher's page, and pp. 618-644.
		Davis et al., "Identifying consensus patterns and secondary structure in SELEX sequence sets," in Abelson (Ed.) <i>Methods in Enzymology: Combinatorial Chemistry</i> , Volume 267. Academic Press: San Diego, CA; 1996. Title page, publisher's page, and pp. 302-314.
		Gold, "The SELEX process: a surprising source of therapeutic and diagnostic compounds," <i>Harvey Lect.</i> , 1995; 91:47-57.
		Guo S. et al., "Gene cloning, purification, and stoichiometry quantification of phi29 anti-receptor gp12 with potential use as a special ligand for gene delivery," 2003 <i>Gene</i> 315:145-152.

EXAMINER	Date Considered

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 290.00040130	Serial No.: 10/539,241
	Applicant(s): Guo et al.	Confirmation No.: 2305
	Application Filing Date: 16 June 2005	Group: 1635
	Information Disclosure Statement mailed:	July 30, 2007

Examiner Initial	Copy Enclosed	Document Description
		Guo, Y. et al., "Construction and 3-D modeling of connector arrays with tetragonal to decagonal transition induced by pRNA of phi29 DNA-packaging motor," 2005 <i>J. Nanosci. and Nanotech.</i> 5:856-863.
		Hoeprich, Stephan Michael. "Bacterial virus phi29 pRNA modeling and its use as a hammerhead ribozyme escort to destroy hepatitis B virus and other targets," Doctoral Dissertation. Purdue University; Adviser: Peixuan Guo. Cover date, December 2004.
		Huang, Lisa Peiqun. "Biochemical characterization of phi29 DNA packaging enzyme gp16," Doctoral Dissertation. Purdue University; Adviser: Peixuan Guo. Cover date, May 2003.
		Huang et al., "Use of acetone to attain highly active and soluble DNA packaging protein gp16 pb phi29 for ATPase assay," 2003 <i>Virology</i> 312(2):449-457.
		Lee et al., "Interaction of gp16 with pRNA and DNA for genome packaging by the motor of bacterial virus phi29," 2006 <i>J. Mol. Bio.</i> 356:589-599.
		Moll et al., "Translocation of nicked but not gapped DNA by the packaging motor of bacteriophage phi29," 2005 <i>J. Mol. Bio.</i> 351:100-107.
		Shu et al., "Bottom-up assembly of RNA arrays and superstructure as potential parts in nanotechnology," 2004 <i>Nano. Lett.</i> 4(9):1717-1723.
		Shu et al., "A simple mathematical formula for stoichiometry quantification of viral and nanobiological assemblage using slope log/log plot curves," 2004 <i>J. Virol. Meth.</i> 115:19-30.
		Shu et al., "Counting of six pRNAs of phi29 DNA-packaging motor with customized single-molecule dual-view system," 2007 <i>EMBO J.</i> 26(2):527-537.
		Wang et al., "Selection with SELEX Method of Small RNA Molecules Specifically Binding to Starch," <i>Acta Biochem. Et Biophys. Sinica</i> , 1998; 30:402-404. English language Abstract only.
		Wen et al., "Study of transcription and cleavage in vitro of HDV with HBV-specific hammerhead ribozyme," <i>Chinese Journal of Hepatology</i> , 1999 March; 7(1):11-2. English language Abstract only.
		Zhen et al., "In vitro selection and affinity function of the aptamers to Bacillus anthracis spores by SELEX," <i>Acta Biochem. Et Biophys. Sinica</i> , 2002; 34:635-642. English language Abstract only.

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\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.